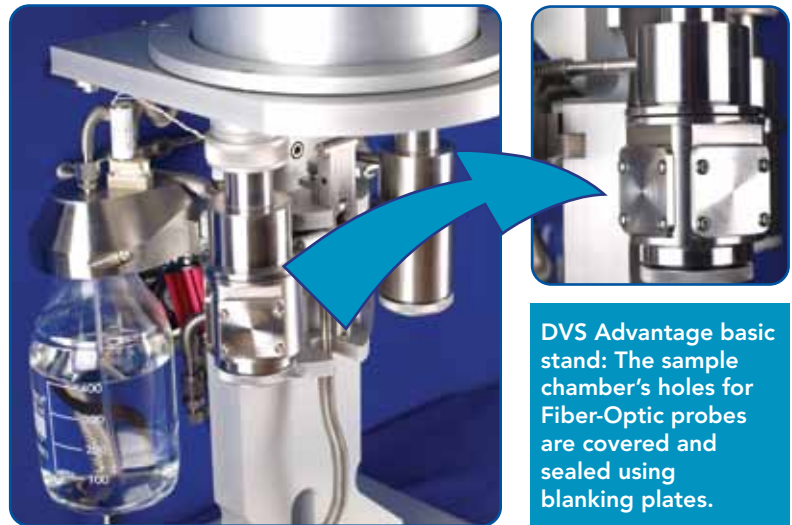


The standard DVS Advantage

The standard DVS Advantage is supplied with a basic stand - any extra modular features required for enhanced functionality must be purchased in addition to the standard system.

The sample chamber can accommodate up to two Fiber-Optic probes.

On a standard system, the holes for these probes are fitted with blanking plates, as shown.



DVS Advantage basic stand: The sample chamber's holes for Fiber-Optic probes are covered and sealed using blanking plates.

The Fiber-Optic Adaptors

To insert Fiber-Optic probes into the Advantage sample chamber, you need to purchase special Fiber-Optic Adaptors from SMS, as shown.

These Adaptors are attached to the sample chamber in place of the blanking plates. The sample chamber can accommodate up to two Adaptors.

The Adaptors are also supplied with blanking plugs, allowing the system to be sealed when there is no probe inserted but the probe Adaptor remains in place.



The DVS Advantage Fiber-Optic Adaptor.



The Adaptors can be fitted to either or both locations on the sample chamber.

Probe dimensions

The Fiber-Optic Adaptors can accommodate probe diameters of 3/8", 1/2" or 12mm.

Note: The Adaptor diameter is not adjustable. Each individual Adaptor can accommodate only one of the probe dimensions listed above.

The DVS Advantage can accommodate probes of different dimensions, allowing a wide range of commercial spectrometer models to interface with the system.



Spectrometer requirements

Note: SMS does not supply spectrometers for use with the DVS Advantage.

It is intended that you couple the Advantage with your pre-existing spectrometer, or a new spectrometer of your choice. However, for a spectrometer to work with the DVS Advantage, it must have the following specifications:

TRIGGERING

The Advantage control software triggers the spectrometer to take scans at times specified by the user. For this to work, the spectrometer must be able to accept a 5V TTL trigger.

EXCITATION

The spectrometer must also have the facility for excitation and return through its fiber.

SHUTTER

The spectrometer excitation system must be able to turn off or block the laser light between triggers. This is necessary to prevent sample burning.

Control software and data saving

Currently, there is limited integration between the DVS Advantage and spectrometer control software.

This means that while the Advantage control software triggers the scans, the spectrometer itself will still collect and save data using its own software.

SMS recommends using spectrometer software which can record or export data in Microsoft Excel® or CSV (Common Separated Values) format. This allows easy overlay of DVS and spectroscopy data by the user.

Using spectrometers in combination with other modular features



The Fiber-Optic Adaptors can be used in combination with the DVS Advantage Color Video Microscope only.

The DVS Advantage sample chamber fitted with a Fiber-Optic probe and Color Video Microscope.



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